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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/380,377ADATE: 06/08/2000  
TIME: 08:10:46

Input Set: I380377A.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

1 <110> APPLICANT: BULLEID, NEIL J  
2 <120> TITLE OF INVENTION: PROCOLLAGEN ASSEMBLY  
3 <130> FILE REFERENCE: 39-189  
4 <140> CURRENT APPLICATION NUMBER: US/09/380,377A  
5 <141> CURRENT FILING DATE: 1999-09-16  
6 <150> EARLIER APPLICATION NUMBER: 9704305.3  
7 <151> EARLIER FILING DATE: 1997-03-01  
8 <160> NUMBER OF SEQ ID NOS: 18  
9 <170> SOFTWARE: PatentIn Ver. 2.0  
10 <210> SEQ ID NO 1  
11 <211> LENGTH: 23  
12 <212> TYPE: PRT  
13 <213> ORGANISM: Homo sapiens  
14 <400> SEQUENCE: 1  
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16 1 5 10 15  
17 Leu Arg Leu Met Ser Thr Glu  
18 20  
19 <210> SEQ ID NO 2  
20 <211> LENGTH: 23  
21 <212> TYPE: PRT  
22 <213> ORGANISM: Homo sapiens  
23 <400> SEQUENCE: 2  
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25 1 5 10 15  
26 Met Arg Leu Leu Ala Asn Tyr  
27 20  
28 <210> SEQ ID NO 3  
29 <211> LENGTH: 23  
30 <212> TYPE: PRT  
31 <213> ORGANISM: Homo sapiens  
32 <400> SEQUENCE: 3  
33 Gly Asp Asp Asn Leu Ala Pro Asn Thr Ala Asn Val Gln Met Thr Phe  
34 1 5 10 15  
35 Leu Arg Leu Leu Ser Thr Glu  
36 20  
37 <210> SEQ ID NO 4  
38 <211> LENGTH: 23  
39 <212> TYPE: PRT  
40 <213> ORGANISM: Homo sapiens  
41 <400> SEQUENCE: 4  
42 Gly Asn Pro Glu Leu Pro Glu Asp Val Leu Asp Val Gln Leu Ala Phe  
43 1 5 10 15  
44 Leu Arg Leu Leu Ser Ser Arg

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48 <212> TYPE: PRT
49 <213> ORGANISM: Homo sapiens
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53   Arg Leu Leu Ser Ala Ser
54                               20
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57 <212> TYPE: PRT
58 <213> ORGANISM: Homo sapiens
59 <400> SEQUENCE: 6
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62   Arg Leu Leu Ser Lys Glu
63                               20
64 <210> SEQ ID NO 7
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66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
68 <400> SEQUENCE: 7
69   Leu Asp Val Glu Gly Asn Ser Ile Asn Met Val Gln Met Thr Phe Leu
70       1                               5               10               15
71   Lys Leu Leu Thr Ala Ser
72                               20
73 <210> SEQ ID NO 8
74 <211> LENGTH: 22
75 <212> TYPE: PRT
76 <213> ORGANISM: Homo sapiens
77 <400> SEQUENCE: 8
78   Val Asp Ser Glu Gly Ser Pro Val Gly Val Val Gln Leu Thr Phe Leu
79       1                               5               10               15
80   Arg Leu Leu Ser Val Ser
81                               20
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83 <211> LENGTH: 20
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: Description of Artificial Sequence:RECOMBINANT
88   PRIMER
89 <400> SEQUENCE: 9
90   agatggtcgc actggacatc
91 <210> SEQ ID NO 10
92 <211> LENGTH: 32
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence

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100                                     32
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103  <212> TYPE: DNA
104  <213> ORGANISM: Artificial Sequence
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113  <212> TYPE: DNA
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120                                     32
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145          1          5          10          15
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147          20
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150 <212> TYPE: PRT
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156 <211> LENGTH: 250
157 <212> TYPE: PRT
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159 <400> SEQUENCE: 16
160      Tyr Tyr Arg Ala Asp Asp Ala Asn Val Val Arg Asp Arg Asp Leu Glu
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162      Val Asp Thr Thr Leu Lys Ser Leu Ser Gln Gln Ile Glu Asn Ile Arg
163          20          25          30
164      Ser Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys Arg Asp Leu
165          35          40          45
166      Lys Met Cys His Ser Asp Trp Lys Ser Gly Glu Tyr Trp Ile Asp Pro
167          50          55          60
168      Asn Gln Gly Cys Asn Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu
169          65          70          75          80
170      Thr Gly Glu Thr Cys Val Tyr Pro Thr Gln Pro Ser Val Ala Gln Lys
171          85          90          95
172      Asn Trp Tyr Ile Ser Lys Asn Pro Lys Asp Lys Arg His Val Trp Phe
173          100          105          110
174      Gly Glu Ser Met Thr Asp Gly Phe Gln Phe Glu Tyr Gly Gly Gln Gly
175          115          120          125
176      Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr Phe Leu Arg Leu Met
177          130          135          140
178      Ser Thr Glu Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser Val
179          145          150          155          160
180      Ala Tyr Met Asp Gln Gln Thr Gly Asn Leu Lys Lys Ala Leu Leu Leu
181          165          170          175
182      Lys Gly Ser Asn Glu Ile Glu Ile Arg Ala Glu Gly Asn Ser Arg Phe
183          180          185          190
184      Thr Tyr Ser Val Thr Val Asp Gly Cys Thr Ser His Thr Gly Ala Trp
185          195          200          205
186      Gly Lys Thr Val Ile Glu Tyr Lys Thr Thr Lys Thr Ser Arg Leu Pro
187          210          215          220
188      Ile Ile Asp Val Ala Pro Leu Asp Val Gly Ala Pro Asp Gln Glu Phe
189          225          230          235          240
190      Gly Phe Asp Val Gly Pro Val Cys Phe Leu
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193 <211> LENGTH: 251
194 <212> TYPE: PRT

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195 <213> ORGANISM: Homo sapiens
196 <400> SEQUENCE: 17
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199   Asp Tyr Glu Val Asp Ala Thr Leu Lys Ser Leu Asn Asn Gln Ile Glu
200           20           25           30
201   Thr Leu Leu Thr Pro Glu Gly Ser Arg Lys Asn Pro Ala Arg Thr Cys
202           35           40           45
203   Arg Asp Leu Arg Leu Ser His Pro Glu Trp Ser Ser Gly Tyr Tyr Trp
204           50           55           60
205   Ile Asp Pro Asn Gln Gly Cys Thr Met Glu Ala Ile Lys Val Tyr Cys
206           65           70           75           80
207   Asp Phe Pro Thr Gly Glu Thr Cys Ile Arg Ala Gln Pro Glu Asn Ile
208           85           90           95
209   Pro Ala Lys Asn Trp Tyr Arg Ser Ser Lys Asp Lys Lys His Val Trp
210           100          105          110
211   Leu Gly Glu Thr Ile Asn Ala Gly Ser Gln Phe Glu Tyr Asn Val Glu
212           115          120          125
213   Gly Val Thr Ser Lys Glu Met Ala Thr Gln Leu Ala Phe Met Arg Leu
214           130          135          140
215   Leu Ala Asn Tyr Ala Ser Gln Asn Ile Thr Tyr His Cys Lys Asn Ser
216          145          150          155          160
217   Ile Ala Tyr Met Asp Glu Glu Thr Gly Asn Leu Lys Lys Ala Val Ile
218           165          170          175
219   Leu Gln Gly Ser Asn Asp Val Glu Leu Val Ala Glu Gly Asn Ser Arg
220           180          185          190
221   Phe Thr Tyr Thr Val Leu Val Asp Gly Cys Ser Lys Lys Thr Asn Glu
222           195          200          205
223   Trp Gly Lys Thr Ile Ile Glu Tyr Lys Thr Asn Lys Pro Ser Arg Leu
224           210          215          220
225   Pro Phe Leu Asp Ile Ala Pro Leu Asp Ile Gly Gly Ala Asp His Glu
226          225          230          235          240
227   Phe Phe Val Asp Ile Gly Pro Val Cys Phe Lys
228           245          250
229 <210> SEQ ID NO 18
230 <211> LENGTH: 248
231 <212> TYPE: PRT
232 <213> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 18
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236   Met Thr Ser Leu Lys Ser Val Asn Gly Gln Ile Glu Ser Leu Ile Ser
237           20           25           30
238   Pro Asp Gly Ser Arg Lys Asn Pro Ala Arg Asn Cys Arg Asp Leu Lys
239           35           40           45
240   Phe Cys His Pro Glu Leu Lys Ser Gly Glu Tyr Trp Val Asp Pro Asn
241           50           55           60
242   Gln Gly Cys Lys Leu Asp Ala Ile Lys Val Phe Cys Asn Met Glu Thr
243           65           70           75           80
244   Gly Glu Thr Cys Ile Ser Ala Asn Pro Leu Asn Val Pro Arg Lys His

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129	W	"N" or "Xaa" used: Feature required	Gly Asn Pro Glu Leu Pro Glu Asp Val Leu A
131	W	"N" or "Xaa" used: Feature required	Xaa Xaa Ser Ser Arg
144	W	"N" or "Xaa" used: Feature required	Gly Asn Pro Glu Leu Pro Glu Asp Val Leu A
146	W	"N" or "Xaa" used: Feature required	Xaa Xaa Xaa Ser Ser Arg